

2 Way-0° 50Ω 800 to 1175 MHz



Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.

*Derate linearly to 6W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

SUM PORT	2
PORT 1	6
PORT 2	4
GROUND	1,3,5
PORT 1-2	resistor external 100 OHMS

A	B	C	D	E	F
126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K	wt	
.039	.024	.042	.123	grams	
0.99	0.61	1.07	3.12	.020	

Figure 1: Dimensions of the 1206 size resistor. The diagram shows a top-down view of a rectangular resistor with a central rectangular cutout. Key dimensions include: overall width of .061, overall height of .068, central cutout width of .014 (2 PL) and height of .018, and a central rectangular area of .042 (2 PL) by .044 (3 PL). A central rectangular area is labeled 'EXTERNAL RESISTOR'. A central rectangular area is labeled 'DUT PACKAGE OUTLINE'. A central rectangular area is labeled 'PIN 1'. A central rectangular area is labeled '6X .015 PTH FOR GROUND'. A central rectangular area is labeled 'RESISTOR R1: 100 Ohm, 1206 SIZE'.

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

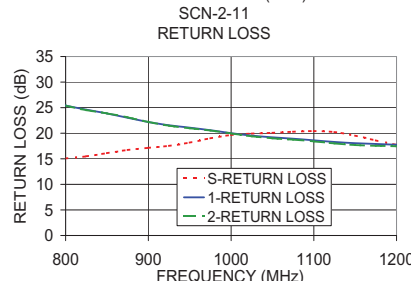
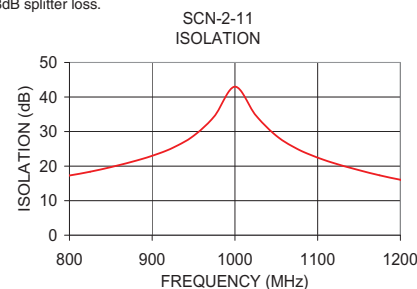
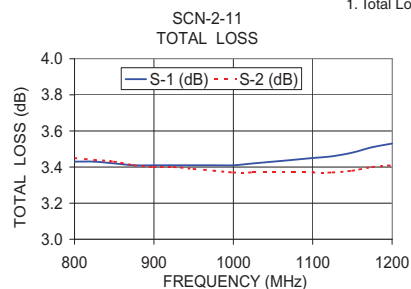
- isolation resistor, external 100 ohms
- low insertion loss, 0.5 dB typ.
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1.0 deg. typ.
- high isolation, 22 dB typ.
- excellent power handling, 20W as splitter
- small size, 0.12"X0.06"X0.035"
- ESD non-sensitive
- temperature stable LTCC technology
- wrap around terminations for excellent solderability
- low cost
- protected by US patent 6.967.544

- GSM
- ISM
- cellular

Electrical Specifications										
FREQUENCY (MHz)	INSERTION LOSS (dB) ABOVE 3.0 dB		ISOLATION (dB)		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)		RETURN LOSS (dB)	
	Typ.	Max.	Typ.	Min.	Typ.	Max.	Typ.	Max.	INPUT Typ.	OUTPUT Typ.
800-1175	0.5	0.8	20	15	1.0	3.0	0.1	0.3	16	18
875-1125	0.5	0.8	22	18	1.0	3.0	0.1	0.3	16	20

Frequency (MHz)	Total Loss ¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	Return Loss (dB)		
	S-1	S-2				S	1	2
800.00	3.43	3.45	0.02	17.28	0.11	15.07	25.43	25.41
825.00	3.43	3.44	0.01	18.38	0.13	15.48	24.60	24.52
850.00	3.42	3.43	0.01	19.70	0.14	16.10	23.86	23.88
875.00	3.41	3.41	0.00	21.21	0.14	16.72	23.02	23.11
900.00	3.41	3.40	0.01	22.98	0.15	17.14	22.19	22.21
925.00	3.41	3.40	0.01	25.31	0.14	17.53	21.56	21.46
950.00	3.41	3.39	0.02	28.76	0.12	18.16	21.09	20.97
975.00	3.41	3.38	0.03	34.40	0.14	19.00	20.59	20.53
1000.00	3.41	3.37	0.04	42.99	0.16	19.65	20.02	19.96
1025.00	3.42	3.37	0.05	34.77	0.20	19.92	19.53	19.39
1050.00	3.43	3.37	0.06	28.77	0.23	20.08	19.20	19.01
1100.00	3.45	3.37	0.08	22.45	0.27	20.43	18.61	18.40
1125.00	3.46	3.37	0.09	20.49	0.31	20.22	18.29	18.00
1150.00	3.48	3.38	0.10	18.83	0.34	19.53	18.05	17.69
1175.00	3.51	3.40	0.11	17.34	0.36	18.61	17.90	17.54

1. Total Loss = Insertion Loss + 3dB splitter loss.



For detailed performance specs
& shopping online see web site

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